

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P944302

Luminaire Tested: **GALN-SB9A-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29349 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

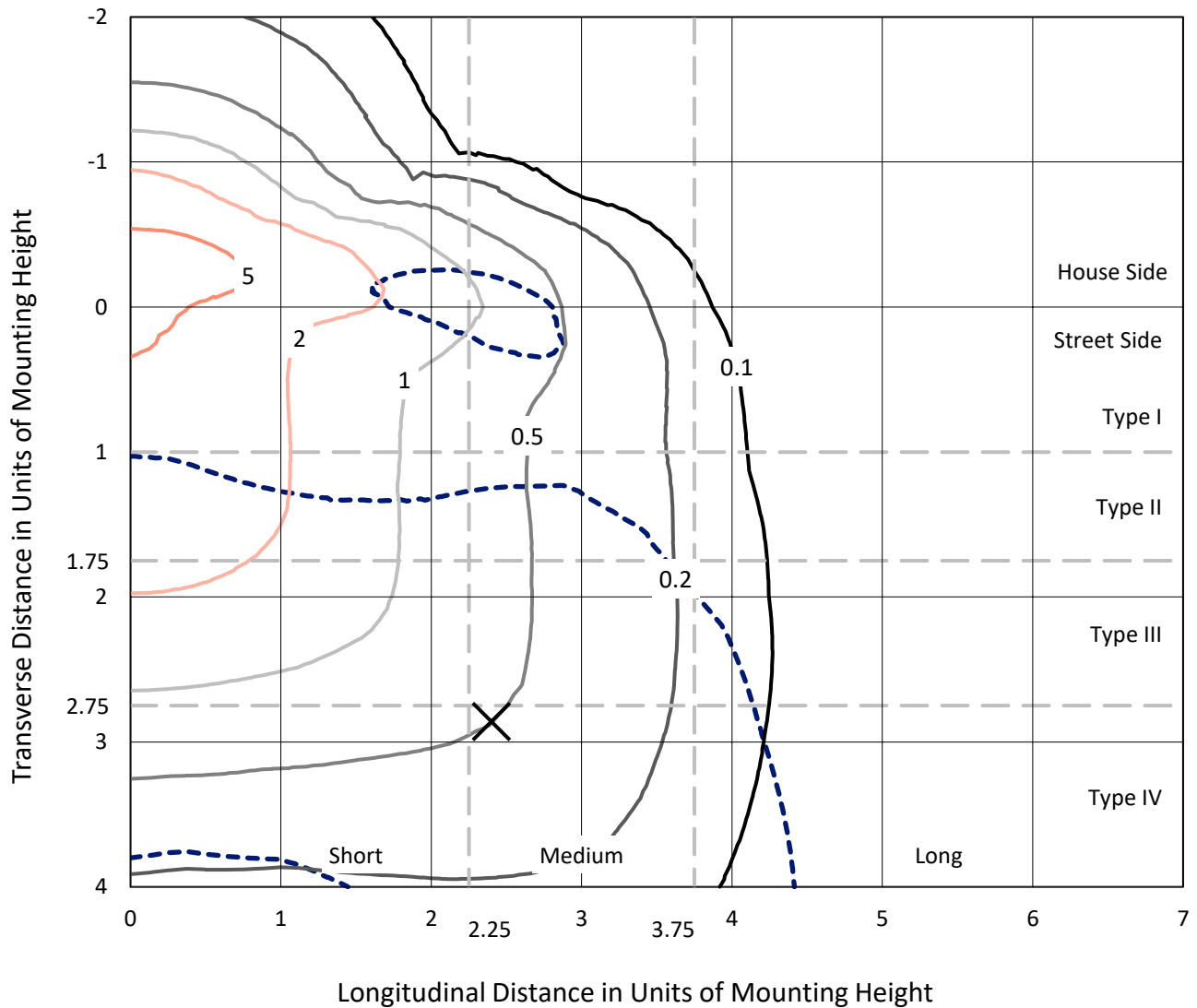
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944302
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Iso-Footcandle Lines of Horizontal Illumination

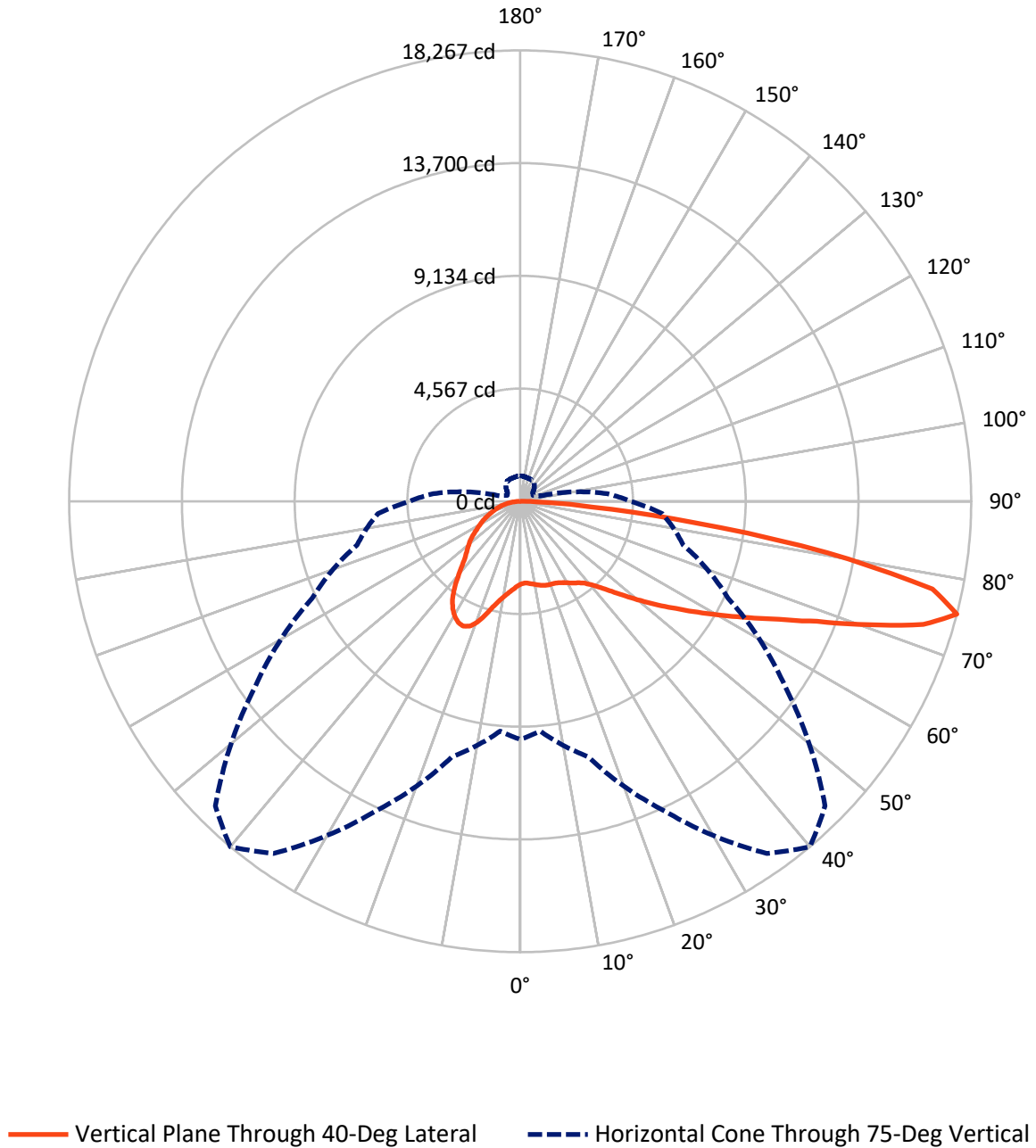
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P944302
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Luminous Intensity Polar Plot



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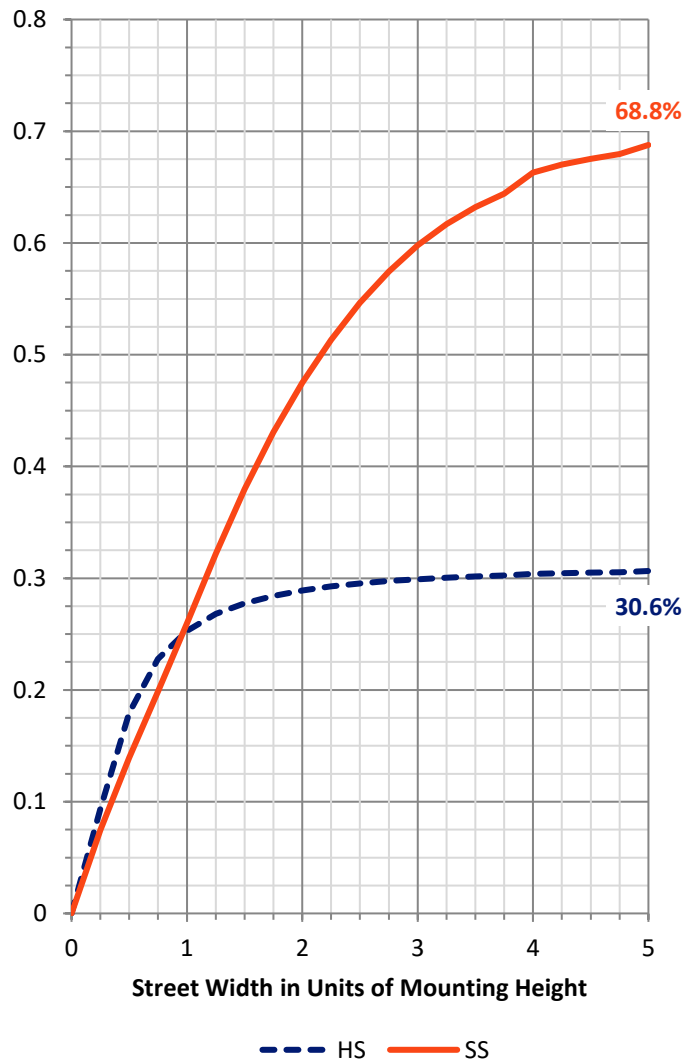
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9093.3	0.0	9093.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	20255.7	0.0	20255.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	29349.0	0.0	29349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.0	1.1
10°-20°	1124.8	3.8
20°-30°	2053.7	7.0
30°-40°	2912.7	9.9
40°-50°	3933.1	13.4
50°-60°	5291.0	18.0
60°-70°	6715.5	22.9
70°-80°	6094.8	20.8
80°-90°	888.4	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	29349.0	100.0
0°-180°	29349.0	100.0

Coefficient of Utilization



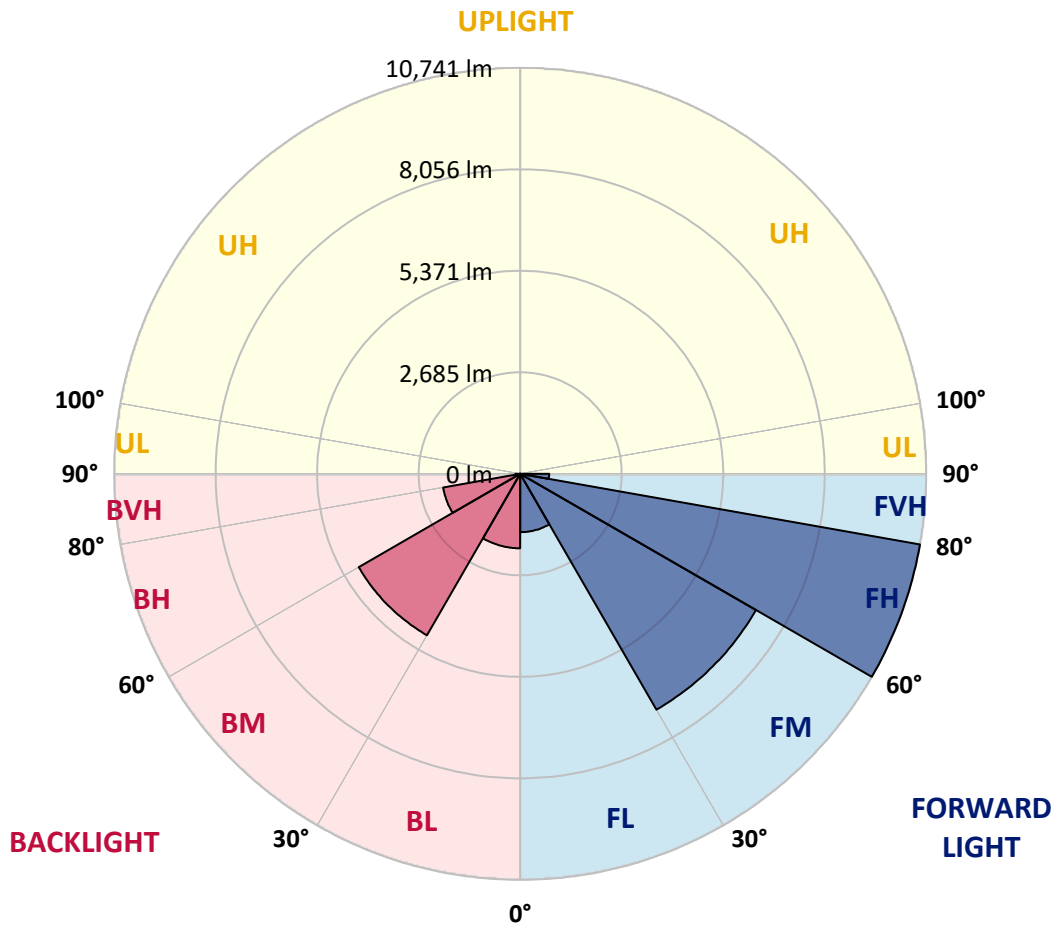
REPORT NUMBER: P944302
 CATALOG NUMBER: GALN-SB9A-940-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1543.8	5.3			
FM (30°-60°)	7204.5	24.5			
FH (60°-80°)	10741.3	36.6			G4/12000
FVH (80°-90°)	766.1	2.6			G5
BL (0°-30°)	1969.7	6.7	B3/2500		
BM (30°-60°)	4932.3	16.8	B3/5000		
BH (60°-80°)	2069.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	122.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



REPORT NUMBER: P944302
 CATALOG NUMBER: GALN-SB9A-940-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1
2.5°	3304.7	3323.4	3318.7	3312.5	3312.5	3314.1	3312.5	3323.4	3334.3	3345.2
5°	3339.0	3357.7	3348.3	3340.5	3334.3	3332.7	3328.1	3326.5	3332.7	3346.8
7.5°	3405.9	3424.6	3410.6	3396.6	3384.1	3377.9	3371.7	3362.3	3357.7	3365.4
10°	3480.6	3499.3	3482.2	3457.3	3437.0	3429.3	3423.0	3413.7	3407.5	3412.1
12.5°	3555.3	3574.0	3550.7	3516.4	3490.0	3485.3	3477.5	3474.4	3472.8	3471.3
15°	3625.4	3641.0	3611.4	3570.9	3542.9	3535.1	3527.3	3532.0	3539.8	3549.1
17.5°	3679.9	3695.4	3651.9	3598.9	3572.5	3569.4	3564.7	3580.3	3602.0	3625.4
20°	3729.7	3745.3	3689.2	3617.6	3586.5	3586.5	3588.0	3620.7	3651.9	3686.1
22.5°	3799.7	3812.2	3743.7	3645.6	3600.5	3603.6	3616.1	3648.7	3687.7	3734.4
25°	3904.0	3913.4	3829.3	3698.6	3647.2	3656.5	3667.4	3683.0	3720.3	3774.8
27.5°	4072.1	4079.9	3969.4	3792.0	3714.1	3729.7	3745.3	3734.4	3751.5	3798.2
30°	4308.8	4313.4	4173.3	3938.3	3827.8	3835.5	3838.7	3793.5	3760.8	3798.2
32.5°	4588.9	4587.4	4420.8	4115.7	3957.0	3949.2	3922.7	3834.0	3757.7	3790.4
35°	5023.2	5006.1	4791.3	4364.8	4103.3	4055.0	3992.8	3879.1	3773.3	3782.6
37.5°	5742.4	5689.5	5392.2	4772.6	4321.2	4198.2	4106.4	3952.3	3807.5	3779.5
40°	6553.4	6486.5	6159.6	5331.5	4648.1	4450.4	4302.5	4056.6	3863.6	3793.5
42.5°	7515.4	7420.5	7068.7	5989.9	5062.2	4775.7	4553.1	4188.9	3946.1	3838.7
45°	8696.9	8570.8	8072.7	6732.4	5583.6	5202.3	4904.9	4389.7	4072.1	3925.8
47.5°	9890.8	9922.0	9213.7	7582.4	6209.4	5728.4	5345.5	4691.7	4255.8	4065.9
50°	11159.5	11181.3	10348.5	8524.1	6919.2	6323.0	5840.5	5029.5	4511.1	4265.2
52.5°	12149.5	12152.6	11379.0	9509.5	7658.6	6976.8	6374.4	5415.5	4806.9	4529.8
55°	12769.0	12761.3	12101.3	10441.9	8508.5	7663.3	6965.9	5854.5	5168.0	4841.1
57.5°	13218.9	13195.6	12599.4	11243.5	9414.5	8474.3	7635.3	6352.6	5594.5	5211.6
60°	13390.1	13376.1	12937.2	11936.2	10367.2	9370.9	8407.4	6909.9	6078.6	5649.0
62.5°	13455.5	13482.0	13268.7	12607.2	11386.8	10364.1	9255.7	7576.1	6623.5	6144.0
65°	13685.9	13734.2	13690.6	13485.1	12538.7	11526.9	10381.2	8368.5	7218.1	6674.8
67.5°	14142.0	14190.3	14208.9	14535.8	13945.9	12976.1	11785.3	9355.4	7913.9	7225.9
70°	14131.1	14117.1	14447.1	15371.7	15708.0	14982.6	13678.1	10569.5	8743.6	7683.5
72.5°	12862.4	12750.4	13530.2	15362.4	17174.3	17077.8	15989.7	12135.5	9459.6	7739.6
75°	9649.6	9350.7	10728.3	13844.7	17418.7	18267.1	17459.2	13106.8	9290.0	6838.3
77.5°	4126.6	3826.2	5449.8	10248.9	15589.7	17076.2	16111.1	11435.0	7415.8	4522.0
80°	1080.3	1078.7	1646.9	4646.5	10602.2	12610.3	11063.0	7384.7	4237.2	1615.8
82.5°	446.8	435.9	605.5	1807.2	5180.5	7076.4	5775.1	3293.8	1530.2	437.4
85°	166.6	165.0	294.2	624.2	1827.5	2918.7	2112.3	842.1	381.4	213.3
87.5°	46.7	45.1	63.8	216.4	445.2	675.6	361.1	138.5	107.4	84.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944302
 CATALOG NUMBER: GALN-SB9A-940-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3356.1	0°	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1
3362.3	2.5°	3367.0	3374.8	3388.8	3399.7	3413.7	3429.3	3451.1	3465.1	3479.1	3488.4
3370.1	5°	3381.0	3398.1	3433.9	3469.7	3511.8	3550.7	3595.8	3628.5	3655.0	3662.8
3398.1	7.5°	3412.1	3440.2	3500.9	3561.6	3628.5	3692.3	3757.7	3813.7	3858.9	3876.0
3447.9	10°	3466.6	3504.0	3589.6	3675.2	3763.9	3862.0	3946.1	4027.0	4090.8	4117.3
3507.1	12.5°	3535.1	3581.8	3693.9	3812.2	3935.2	4070.6	4179.6	4279.2	4358.6	4394.4
3589.6	15°	3623.8	3684.5	3827.8	3986.5	4167.1	4355.5	4494.0	4604.5	4693.2	4736.8
3675.2	17.5°	3720.3	3801.3	3981.9	4221.6	4480.0	4727.5	4889.4	4970.3	5062.2	5104.2
3754.6	20°	3813.7	3913.4	4171.8	4520.5	4864.5	5127.5	5258.3	5280.1	5286.3	5291.0
3829.3	22.5°	3910.3	4044.1	4409.9	4897.2	5266.1	5448.2	5466.9	5373.5	5242.7	5182.0
3902.5	25°	4016.1	4193.6	4721.3	5312.8	5611.7	5633.4	5490.2	5263.0	5015.5	4901.8
3961.6	27.5°	4118.8	4366.4	5094.9	5709.7	5860.7	5669.3	5361.0	5038.8	4739.9	4620.1
4003.7	30°	4221.6	4564.0	5507.4	6056.9	5974.4	5580.5	5157.1	4797.5	4497.1	4371.0
4041.0	32.5°	4325.9	4794.4	5982.1	6307.5	5954.1	5392.2	4903.4	4526.7	4262.1	4129.7
4073.7	35°	4444.2	5077.7	6432.0	6444.5	5818.7	5115.1	4568.7	4202.9	3972.5	3866.7
4112.6	37.5°	4598.3	5437.3	6828.9	6478.7	5582.1	4708.8	4153.1	3820.0	3630.1	3581.8
4170.2	40°	4789.8	5870.1	7132.5	6424.2	5231.8	4215.4	3698.6	3432.4	3325.0	3335.9
4248.0	42.5°	5038.8	6354.2	7345.7	6284.1	4744.6	3706.3	3300.1	3181.8	3233.1	3276.7
4364.8	45°	5362.6	6857.0	7478.1	6046.0	4193.6	3275.2	3065.0	3093.0	3131.9	3136.6
4553.1	47.5°	5776.7	7366.0	7565.2	5686.4	3631.6	2971.6	2915.6	2921.8	2914.0	2881.3
4834.9	50°	6293.5	7861.0	7643.1	5210.0	3153.7	2781.7	2707.0	2685.2	2577.8	2471.9
5210.0	52.5°	6881.9	8315.5	7675.7	4618.5	2781.7	2622.9	2501.5	2364.5	2163.7	2131.0
5681.7	55°	7535.7	8735.8	7591.7	3891.6	2468.8	2419.0	2235.3	2070.3	2048.5	2020.5
6302.8	57.5°	8317.1	9188.8	7420.5	3080.6	2148.2	2180.8	2001.8	2020.5	1981.6	1938.0
7101.4	60°	9171.7	9657.3	7120.0	2341.2	1816.6	1883.5	1941.1	1939.6	1928.7	1892.9
7943.5	62.5°	9940.6	9965.6	6528.5	1793.2	1525.5	1653.1	1810.4	1808.8	1799.5	1779.2
8823.0	65°	10398.3	9918.9	5541.6	1411.9	1285.8	1463.2	1632.9	1645.4	1646.9	1645.4
9484.6	67.5°	10317.4	9372.5	4187.3	1123.9	1088.1	1270.2	1457.0	1474.1	1486.6	1489.7
9568.6	70°	9402.1	8172.3	2730.3	896.6	912.2	1100.5	1290.4	1307.6	1318.5	1330.9
8303.1	72.5°	7328.6	6008.6	1562.9	725.4	758.1	954.2	1125.4	1145.7	1151.9	1175.3
5778.2	75°	4466.0	3533.6	843.7	571.3	622.7	815.7	962.0	985.3	996.2	1024.3
2837.7	77.5°	2123.2	1530.2	481.0	445.2	501.2	666.2	812.6	839.0	809.4	825.0
783.0	80°	717.6	568.2	303.5	339.3	382.9	519.9	650.7	677.1	614.9	611.8
260.0	82.5°	250.6	230.4	193.0	225.7	247.5	372.0	491.9	526.1	457.6	456.1
116.7	85°	98.1	93.4	107.4	123.0	147.9	228.8	323.8	340.9	281.8	227.3
34.2	87.5°	20.2	21.8	26.5	28.0	45.1	79.4	116.7	143.2	113.6	96.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
3356.1
3482.2
3665.9
3877.6
4118.8
4394.4
4733.7
5102.6
5303.4
5199.1
4919.0
4634.1
4385.0
4146.9
3890.0
3616.1
3373.2
3317.2
3167.7
2906.2
2485.9
2141.9
2025.2
1930.2
1880.4
1771.4
1645.4
1492.8
1337.1
1184.6
1027.4
812.6
605.5
434.3
224.2
88.7
0.0

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